

# Artur Tyliszczak

## List of Publications by Year in descending order

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51  
papers

763  
citations

516215

16  
h-index

552369

26  
g-index

52  
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52  
docs citations

52  
times ranked

410  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of Evaporation Models and Droplet Size on Auto-ignition and Lift-off Height in a Spray Jet Flame. <i>Combustion Science and Technology</i> , 2022, 194, 175-194.	1.2	1
2	Experimental and numerical studies of turbulent flows over two-dimensional and three-dimensional rough surfaces under an adverse pressure gradient. <i>Applied Mathematical Modelling</i> , 2022, 106, 549-566.	2.2	2
3	High-order compact difference schemes on wide computational stencils with a spectral-like accuracy. <i>Computers and Mathematics With Applications</i> , 2022, 108, 123-140.	1.4	6
4	Numerical analysis of non-excited and excited jets issuing from non-circular nozzles. <i>International Journal of Heat and Fluid Flow</i> , 2022, 94, 108944.	1.1	5
5	Application of High-Order Compact Difference Schemes for Solving Partial Differential Equations with High-Order Derivatives. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2203.	1.3	1
6	A numerical study of a lifted $\text{H}_2/\text{N}_2$ flame excited by an axial and flapping forcing. <i>Scientific Reports</i> , 2022, 12, 2753.	1.6	3
7	Dynamics of transitional jets emanating from a non-circular nozzle. <i>Experimental Thermal and Fluid Science</i> , 2022, , 110720.	1.5	0
8	Numerical Analysis of the Combustion Dynamics of Passively Controlled Jets Issuing from Polygonal Nozzles. <i>Energies</i> , 2021, 14, 554.	1.6	3
9	Numerical Analysis of a Flow over Spheres Embedded on a Flat Wall. <i>Processes</i> , 2021, 9, 277.	1.3	2
10	Numerical Study of Hydrogen Auto-Ignition Process in an Isotropic and Anisotropic Turbulent Field. <i>Energies</i> , 2021, 14, 1869.	1.6	4
11	A Numerical Study of the Global Instability in Counter-Current Homogeneous Density Incompressible Round Jets. <i>Flow, Turbulence and Combustion</i> , 2021, 107, 901-935.	1.4	3
12	Study of a Flame Kernel Evolution in a Turbulent Mixing Layer Using LES with a Laminar Chemistry Model. <i>Flow, Turbulence and Combustion</i> , 2020, 105, 807-835.	1.4	9
13	LES analysis of the actuation impact on the two-phase jet flame structure and stabilisation region. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0
14	A spark ignition scenario in a temporally evolving mixing layer. <i>Combustion and Flame</i> , 2019, 209, 353-356.	2.8	18
15	Controlling spatio-temporal evolution of natural and excited square jets via inlet conditions. <i>International Journal of Heat and Fluid Flow</i> , 2019, 80, 108488.	1.1	11
16	Modeling of heat and fluid flow in granular layers using high-order compact schemes and volume penalization method. <i>Numerical Heat Transfer; Part A: Applications</i> , 2019, 76, 737-759.	1.2	10
17	A new insight into understanding the Crow and Champagne preferred mode: a numerical study. <i>Journal of Fluid Mechanics</i> , 2019, 869, 385-416.	1.4	13
18	Modelling of hydrogen flame in perfectly clean combustion regimes using LES-CMC. <i>Journal of Physics: Conference Series</i> , 2019, 1398, 012016.	0.3	0

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19	LES study of global instability in annular jets. International Journal of Heat and Fluid Flow, 2019, 79, 108460.	1.1	14
20	A 3D-CFD study of a $\beta$ -type Stirling engine. Energy, 2019, 169, 142-159.	4.5	20
21	Large eddy simulations of wall-bounded flows using a simplified immersed boundary method and high-order compact schemes. International Journal for Numerical Methods in Fluids, 2018, 87, 358-381.	0.9	9
22	Implicit LES study of spark parameters impact on ignition in a temporally evolving mixing layer between H <sub>2</sub> /N <sub>2</sub> mixture and air. International Journal of Hydrogen Energy, 2018, 43, 9815-9828.	3.8	15
23	Hybrid MPI/Open-MP acceleration approach for high-order schemes for CFD. Journal of Physics: Conference Series, 2018, 1101, 012031.	0.3	3
24	Numerical analysis of an impact of spray characteristics and co-flow temperature on a flame lift-off height. Journal of Physics: Conference Series, 2018, 1101, 012039.	0.3	1
25	Experimental and numerical research on heat and air flow through a granular material. Journal of Physics: Conference Series, 2018, 1101, 012043.	0.3	1
26	Parametric study of multi-armed jets. International Journal of Heat and Fluid Flow, 2018, 73, 82-100.	1.1	28
27	Numerical Predictions of Absolutely Unstable Round Hot Jet. ERCOFTAC Series, 2018, , 529-535.	0.1	0
28	LES-IB Study of Mixing Enhancement by Polygonal Orifices and Wavy Walls. ERCOFTAC Series, 2018, , 367-372.	0.1	0
29	Numerical simulation of free jets. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 1056-1063.	1.6	14
30	LES - IB analysis of a flow in channel with an adverse pressure gradient.. Journal of Physics: Conference Series, 2016, 760, 012012.	0.3	0
31	Impact of numerical method on auto-ignition in a temporally evolving mixing layer at various initial conditions. Journal of Physics: Conference Series, 2016, 760, 012027.	0.3	0
32	Large eddy simulation predictions of absolutely unstable round hot jet. Physics of Fluids, 2016, 28, .	1.6	16
33	Numerical simulations of combustion process in a gas turbine with a single and multi-point fuel injection system. Applied Energy, 2016, 174, 153-165.	5.1	28
34	LES-CMC simulations of a turbulent hydrogen jet in oxy-combustion regimes. International Journal of Hydrogen Energy, 2016, 41, 9705-9717.	3.8	15
35	High-order compact difference algorithm on half-staggered meshes for low Mach number flows. Computers and Fluids, 2016, 127, 131-145.	1.3	42
36	Multi-armed jets: A subset of the blooming jets. Physics of Fluids, 2015, 27, .	1.6	27

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37	Controlled mixing enhancement in turbulent rectangular jets responding to periodically forced inflow conditions. <i>Journal of Turbulence</i> , 2015, 16, 742-771.	0.5	22
38	LES Predictions of Self-Sustained Oscillations in Homogeneous Density Round Free Jet. <i>Flow, Turbulence and Combustion</i> , 2015, 95, 437-459.	1.4	24
39	Large eddy simulation of incompressible free round jet with discontinuous Galerkin method. <i>International Journal for Numerical Methods in Fluids</i> , 2015, 79, 164-182.	0.9	10
40	LES/CMC study of an excited hydrogen flame. <i>Combustion and Flame</i> , 2015, 162, 3864-3883.	2.8	29
41	Projection method for high-order compact schemes for low Mach number flows in enclosures. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2014, 24, 1141-1174.	1.6	11
42	LES/CMC of Blow-off in a Liquid Fueled Swirl Burner. <i>Flow, Turbulence and Combustion</i> , 2014, 92, 237-267.	1.4	70
43	A high-order compact difference algorithm for half-staggered grids for laminar and turbulent incompressible flows. <i>Journal of Computational Physics</i> , 2014, 276, 438-467.	1.9	53
44	Parametric Analysis of Excited Round Jets - Numerical Study. <i>Flow, Turbulence and Combustion</i> , 2014, 93, 221-247.	1.4	40
45	Application of time preconditioning and high-order compact discretization method for low Mach number flows. <i>International Journal for Numerical Methods in Fluids</i> , 2013, 72, 650-670.	0.9	10
46	Self-sustained oscillations in a homogeneous-density round jet. <i>Journal of Turbulence</i> , 2013, 14, 25-52.	0.5	26
47	LES/CMC Predictions of Spark Ignition Probability in a Liquid Fuelled Swirl Combustor. , 2013, , .		3
48	LES modeling of converging-diverging turbulent channel flow. <i>Journal of Turbulence</i> , 2012, 13, N11.	0.5	19
49	A new approach to sub-grid surface tension for LES of two-phase flows. <i>Journal of Computational Physics</i> , 2012, 231, 7368-7397.	1.9	39
50	Large Eddy Simulation of Spark Ignition in a Gas Turbine Combustor. <i>Flow, Turbulence and Combustion</i> , 2010, 85, 711-734.	1.4	62
51	LES of Variable Density Bifurcating Jets. , 2007, , 273-288.		11